



ecology and environment, inc.

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International Specialists in the Environment

MEMORANDUM

TO: Paul Doherty, ARPO
THRU: James Buchanan, RM
FROM: Nancy Blackman, E&E/FIT
DATE: November 30, 1985
SUBJECT: Syntex Verona plant groundwater sampling
TDD #R07-8408-23

Site:	Syntex Verona
ID#:	MLD007452154
Break:	3.3
Other:	E&E
	11-30-85



40032118
SUPERFUND RECORDS

INTRODUCTION

The Ecology and Environment Field Investigation Team (E&E/FIT) was tasked under Technical Directive Document (TDD) R-07-8408-23 to provide technical supervision during the implementation of the Syntex Verona Sampling Plan. The final phase of the sampling plan involved the collection of groundwater samples from ten monitoring wells previously installed (see the Syntex Compliance Monitoring Trip Report TDD R-07-8408-23 for details on the well installation). Sampling of the wells will be conducted quarterly thru August, 1986.

Purging of the Monitoring Wells

The monitoring wells were purged, prior to sampling, using the stainless steel well wizard pumps previously installed in each well. The initial water level was taken at each well and then three well volumes of water were removed.

Well #	Date Purged	Initial Water Level (from top of casing)	Volume Removed
1	11-14-85	13.42'	3.5 gallons
2	11-14-85	8.22'	6 gallons
3	11-14-85	10.92'	5 gallons
4	11-14-85	10.08'	5 gallons
5	11-14-85	10.33'	5 gallons
6	11-14-85	9.63'	5.5 gallons
7	11-14-85	9.80'	5.5 gallons
8	11-14-85	9.71'	5.5 gallons
9	11-14-85	11.00'	5 gallons
10	11-14-85	9.42'	5 gallons

Sampling of the Monitoring Wells

The monitoring wells were sampled immediately after being purged. Steve Hennigh and Bill Durbin of Durbin Contracting collected two quart jars from each well for Syntex. EPA split samples were collected from monitoring wells 1, 5, 6, 7 and 8. The split samples were obtained by collecting the water in a laboratory cleaned 80 oz. jug. The water was then composited into each of the Syntex and EPA sample containers. A summary of the samples collected and the analysis requested is listed below:

Well Number	Syntex Sample Number	Date Collected	Containers	Analysis
1	1-11-14-85	11-14-85	2 quart jars	TCDD
2	2-11-14-85	11-14-85	2 quart jars	TCDD
3	3-11-14-85	11-14-85	2 quart jars	TCDD
4	4-11-14-85	11-14-85	2 quart jars	TCDD
5	5-11-14-85	11-14-85	2 quart jars	TCDD
6	6-11-14-85	11-14-85	2 quart jars	TCDD
7	7-11-14-85	11-14-85	2 quart jars	TCDD
8	8-11-14-85	11-14-85	2 quart jars	TCDD
9	9-11-14-85	11-14-85	2 quart jars	TCDD
10	10-11-14-85	11-14-85	2 quart jars	TCDD

Well Number	EPA Sample Number	Date Collected	Containers	Analysis
1	BK651001	11-14-85	3-80 oz. jugs	TCDD, Base Neutral, Acid, Pesticide (B/N, A,P)
5	BK651002	11-14-85	3-80 oz. jugs	TCDD, B/N, A,P
6	BK651003	11-14-85	3-80 oz. jugs	TCDD, B/N, A,P
7	BK651004	11-14-85	3-80 oz. jugs	TCDD, B/N, A,P
8	BK651005	11-14-85	3-80 oz. jugs	TCDD, B/N, A,P
Field Blank	BK651006	11-14-85	3-80 oz. jugs	TCDD, B/N, A,P

Note: The samples from wells 6 and 7 foamed when agitated and had a strong odor.

Levels of Protection

The samplers were dressed in level-C protection. This level of protection consisted of the following safety equipment:

- PVC rainsuit
- Cotton glove liners
- Nitrile outer gloves
- Neoprene steel toe and shank boots
- Half face air purifying respirator with high efficiency organic vapor filter

The E&E observer was dressed level-D protection.

Decontamination Methods

The samples were packaged and sent to the Syntex laboratory in Palo Alto, California. The EPA split samples were delivered to the Region VII laboratory by Nancy Blackman E&E/FIT on November 15, 1985.

Resources Expended

A total of 28 hours were required to supervise the collection of the groundwater samples at the Syntex Verona plant. This brings the total hours expended on the Syntex Compliance Monitoring TDD to 1677 hours. The hours used to supervise the groundwater sampling in February, May and August will be charged under TDD R07-8408-23A.

NB:wm

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL PROTECTION AGENCY - REGION VII

WORK LEADER (PRINT) N. Blackman	NAME OF SURVEY OR ACTIVITY Syntex Facility	DATE OF COLLECTION 14 11 85 DAY MONTH YEAR	SHEET 1 of 1
DESCRIPTION OF SHIPMENT ___ PIECE(S) CONSISTING OF ___ BOX(S) ___ ICE CHEST(S); OTHER ___		VOUCHER OR RECEIPT NO.	

CONTENTS OF SHIPMENT									
LABORATORY SAMPLE NO.	TYPES OF CONTAINERS				LABORATORY SAMPLE NO.	TYPES OF CONTAINERS			
	CUBITAINER	GLASS JAR	DO BOTTLE	BIO. BOTTLE		CUBITAINER	GLASS JAR	DO BOTTLE	BIO. BOTTLE
	NO. OF CONTAINERS PER LAB NO.					NO. OF CONTAINERS PER LAB NO.			
BK651001		3-80oz Jar			<div></div>				
BK651002		↑							
BK651003									
BK651004									
BK651005		↓							
BK651006F		3-80oz Jar							

PERSONNEL CUSTODY RECORD						
RELINQUISHED BY (SAMPLER) Bill Weinman		RECEIVED BY Nancy J. Blackman		DATE 11-14-85	TIME 1600	REASON FOR CHANGE OF CUSTODY Accept custody for packaging and delivery to the EPA Region VII Lab
<input type="checkbox"/> SEALED	<input checked="" type="checkbox"/> UNSEALED	<input type="checkbox"/> SEALED	<input checked="" type="checkbox"/> UNSEALED			
RELINQUISHED BY Nancy J. Blackman		RECEIVED BY Paul Rule		DATE 11/15/85	TIME 4:10 PM	REASON FOR CHANGE OF CUSTODY Transfer custody to EPA Region VII Lab
<input type="checkbox"/> SEALED	<input checked="" type="checkbox"/> UNSEALED	<input type="checkbox"/> SEALED	<input type="checkbox"/> UNSEALED			
RELINQUISHED BY		RECEIVED BY		DATE	TIME	REASON FOR CHANGE OF CUSTODY
<input type="checkbox"/> SEALED	<input type="checkbox"/> UNSEALED	<input type="checkbox"/> SEALED	<input type="checkbox"/> UNSEALED			
RELINQUISHED BY		RECEIVED BY		DATE	TIME	REASON FOR CHANGE OF CUSTODY
<input type="checkbox"/> SEALED	<input type="checkbox"/> UNSEALED	<input type="checkbox"/> SEALED	<input type="checkbox"/> UNSEALED			
RELINQUISHED BY		RECEIVED BY		DATE	TIME	REASON FOR CHANGE OF CUSTODY
<input type="checkbox"/> SEALED	<input type="checkbox"/> UNSEALED	<input type="checkbox"/> SEALED	<input type="checkbox"/> UNSEALED			
RELINQUISHED BY		RECEIVED BY		DATE	TIME	REASON FOR CHANGE OF CUSTODY
<input type="checkbox"/> SEALED	<input type="checkbox"/> UNSEALED	<input type="checkbox"/> SEALED	<input type="checkbox"/> UNSEALED			
RELINQUISHED BY		RECEIVED BY		DATE	TIME	REASON FOR CHANGE OF CUSTODY
<input type="checkbox"/> SEALED	<input type="checkbox"/> UNSEALED	<input type="checkbox"/> SEALED	<input type="checkbox"/> UNSEALED			

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: Site Name: SYNTAX FACILITY           Site Number: 51      :
: Location: VERONA. MO                 Site Code: SYN       :

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: Sample Number: BK651001 SMO #: :

: Sample Split (circle one): YES **(NO)** :

Samplers: Steve Hennigh
Bill Durbin

: Site Description: Groundwater sample from
:
: Monitoring Well #1
:

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

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: Site Name: SYNTEX FACILITY           Site Number: 51
: Location: VERONA, MD                 Site Code: SYN

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Collected: YR: 85 MO: 11 Day: 14 Time: 1135 Leader: BLACKMAN

Sample Number: BK651003 SMD #:

Sample Media (circle one):
SOIL, DUST, RINSATE, SEDIMENT, WATER OTHER: _____

Sample Split (circle one): YES NO

Sample Container	Tag Color	Preservative	Analysis Requested
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
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61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

[illegible]

Depth: 10-15' Pan #: _____ Aliquots: _____
Samplers: Steve Hennigh
Bill Durbin

Site Description: Groundwater Sample from
Monitoring Well # 6

The sample had an odor and
foamed

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

: Site Name: SYNTEX FACILITY Site Number: 51 :
: Location: VERONA, MO Site Code: SYN :

: Collected: YR: 85 MO: 11 Day: 14 Time: 1515 Leader: BLACKMAN :

: Sample Number: BK651004 SMO #: :

: Sample Media (circle one):
: SOIL, DUST, RINSATE, SEDIMENT, WATER, OTHER: _____ :

: Sample Split (circle one): YES NO :

: Sample Container : Tap Color : Preservative : Analysis Requested :

: 80 OZ JUG	: BLUE	: ICE	: TCDD
: 2-80 OZ JUG	: PURPLE	: ICE	: BNA/P
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:

: Depth: 10-15' Pan #: Aliquots: :

: Samplers: Steve Hennigh
: Bill Durbin

COMMENTS OF FIELD PERSONNEL

: Site Description: Groundwater Sample from
: Monitoring Well # 7
: The sample had an odor and foamed

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Site Code: SYN

: Collected: YR: 85 MO: 11 Day: 14 Time: 1435 Leader: BLACKMAN

SMD #:

: Sample Media (circle one):

: SOIL, DUST, RINSATE, SEDIMENT, (WATER) OTHER:

NO

: Sample Container : Tap Color : Preservative : Analysis Requested

: 80 02 JUG : BLUE : ICE : TCDD

: 2-80 0Z JUG : PURPLE : ICE : BNA/P

Alioucts: _____

: Samplers: Steve Hennigh

Bill Durbin

COMMENTS OF FIELD PERSONNEL

: Site Description: Groundwater Sample from

Monitoring Well # 8

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

: Site Name: SYNTEX FACILITY :
: Location: VERONA. MO : Site Number: 51 :
: Site Code: SYN :

: Collected: YR: 85 MO: 11 Day: 14 Time: 1550 Leader: BLACKMAN :

: Sample Number: BK651006F SMO #: :

: Sample Media (circle one): :
: SOIL, DUST, RINSATE, SEDIMENT, WATER, OTHER: :
: Sample Split (circle one): YES NO :

: Sample Container : Tag Color : Preservative : Analysis Requested :

: 80 OZ JUG : BLUE : ICE : TCDD :
: 2-80 OZ JUG : PURPLE : ICE : BNA/P :

: Depth: N.A. : Par #: : Aliquots: :
: Samplers: Steve Hennigh :
: Bill Durbin :

COMMENTS OF FIELD PERSONNEL

: Site Description: Field Blank :

D.I. water pumped through well Wizard
from Monitoring Well #1